Momual exec.: BFS, DFS, Ford's Alg., Djikestra (+ reeverse), A\*, 'Hurm's Alg.,

DAG topo. sort by predecessor count; DAG topo. sort by DFS,

Floyd-Warshall, Ford-Fulkerson, truskal, Vertex cover

BFS-breadth-first search

- iterative w/ gueue (7iFo)

- check if I paths - some complexity

- add start made to gueue ->

-> pull a made -> prescess if mot seem ->

- add each unseem adjacemt node to gueue

DTS-depth-first nearch

-on a stock (Lifo) con use recursion

- complete search, finding all paths, ...

Time: O( 1VI+ [E1); Space: O(N)

add start node Pull mode from stack - if mot seen:

add to seem & process - add its childrem

om the STACK (if umseem)

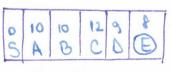
(Bellmon-Ford) - Nexthest path from a source vertex to all the other vertices (Bellmon-Ford) - V-1 iterations (Vis the number of vertices)

at start: S V. V2 ----

Ist iteration

אור	je je	10	10	1010101		
°S	10 (A)	82	C	0	A LU	

0 10 00 12 00 8 S A B C D E



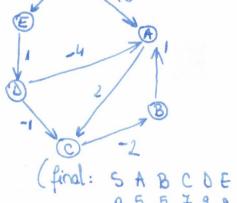
we them take mode (A) omd nee rue com reach to node (C)

- we take B, we don't know how to reach it so we skip

- we can get to Bfrom

\_ we skip (D)

- we get to O from (E)



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... iterate a total of V-1 times & update only when we get a shorter path

[ex]: Heratism 2, when reaching O, the paths to Ad Change

If it no values change during an iteration, the executism can be stopped

